MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of Work: Improvements to Roads & Drains at Bhagath Enclave, Kalidasa layout, Chamimundeshwari nagara, Babanagar, Sirampura, MCECHS layout, Balamahalli & Surrounding area in ward No-05.						
	Job Code: 005-20-000098						
	Est Cost: 800.00 Lakhs						
	Work order No: BBMP/EE/BTP/W.O/121/20-21 Dt: 29/9/20						
	Name of Contractor: M/s SMLP Asphalts Prop: B. B. Umesha,						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535513

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(1)	Removing & Refixing Stone Slabs of drains & pointing in C.M(1:3) with all lead & Lift etc complete Qty is as per pre measurement sheet dt 11/01/21						
	24059.56 = present Qty - 207.41 m² previously pcm Qty 1932.71 m² up to date Qty - 2140.22 m²					= 248265.00	
	@ Rate 116/m²					248265.12	
(2)	Excavation for roads, drains & similar works Earth Excavation by manual means in ordinary						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Soil involving as average Hle throw upto 2m & an average lift upto 0.5m excavated surface leveled & dressed, the disposes earth to be leveled neatly after breaking & clods etc complete						
	Qty is as per measurement sheet - Item 2						
	117702.97 = present Qty					542.41 m²	
	previously paid Qty					3789.31 m²	
	Upto date Qty					4331.72 m²	
	@ Rate 217/m² total =					939983 = 00	
(3)	providing granite slabs of Exciting quality roughly dressed (granite slabs of) having a size						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535514

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	of 7.5 cm thick & fixed in C.M (1:6) including curing etc complete.						
	Qty is as per measurement sheet - Item no 3						
	present Qty					119.53 m²	
	9311387 = previously paid Qty					2403.89 m²	
	Upto date Qty					2523.41 m²	
	@ Rate 78/m²					= 196577 = 00	
(4)	providing & laying P.C.C 1:3:6 with 40 mm down size graded granite metal coarse & fine aggregates in foundation mechanically mixed					total 1965764.18	

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	placed in foundation + compacts by vibration including curing for 4 days including compl. + all material labour, HOM etc complete qty is as per measurement sheet Item No 4						
	1795655.24 = present qty - 315.47 m³						
	previously paid qty - 384.51 m³						
	upto date qty - 699.98 m³						
	@ Rate 5692/m³						= 3984262=00
							3984258.46
(5)	Providing + laying plain/reinforced C.C for side drain using M20 nominal mix concrete with 20 m.m + down size granite metal coarse aggregate + fine aggregates						

M. A. R. 57 (Rule 116) No. E 535515
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	M/C mixed well compacts for walls + bottom including centering & shuttering labour & material HOM & machinery charges etc complete.						
	958515.15 = present qty — 128.05 m³						
	previously paid qty — 745.03 m³						
	upto date qty 873.09 m³						
	@ Rate 7423/m³						= 6480913=00
							6480872.80
(6)	providing T.M.T Steel reinforcement for R.C.C work including straightening cutting bending hooking placing in position lapping + tie						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	welding wherever required tying with binding wire + anchoring to the adjoining members wherever necessary etc complete qty as per measurement sheet item no 6						
	74135.36 = present qty — ~~53.48~~ 9.76 Rm						
	previously paid qty — 43.72 Rm						
	upto date qty — 53.48 Rm						
	@ Rate 7596/Rm 406857.28 =						4060946=00
(7)	providing & constructing granite/basalt ~~ssm~~ in foundation with C.M stone hammer dressed in course not less than 20 cm high, bond stones at 2m apart in each						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535516

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	course including cost of materials labour charges etc complete qty is as per measurement sheet item no 7						
	46846.24 ~~90537.71~~ = present qty — 9.16 m^3						
	previously paid qty — 34.18 m^3						
	upto date qty — 43.34 m^3						
	@ Rate 5114/m^3 =						221643=00
							221640.71
(8)	providing & laying in position with 20 mm & down size granite metal coarse & fine aggregates all wires concrete bed in	P.C.C					& mix 1:2:4

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	layers not exceeding 15cm wide well compacted in foundation plinth & sills including cost of all materials using etc complete qty is as per measurement sheet item no 8						
	2783771 =						Present qty — 48.15 m³
							previously paid qty — 219.21 m³
							up to date qty 267.37 m³
	@ Rate 6094/m³						= 1613281 = N
							1613250.85
(9)	providing & constructing load bearing wall with solid concrete block of size 400x150x200mm having bulk density not less than 1900 kg/m³ & having a min average compressive strength 4.0 N/mm²						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535517

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	and constructed in 1:4 including cost of all materials etc complete qty is as per measurement sheet item no 9						
	418879.16						= present qty 407.47 m²
							previous qty paid 1947.88 m²
							up to date qty 2355.35 m²
	@ Rate 1028/m²						= 2421302 = N
							2421299.80
(10)	providing & Fixing Rcc pre cast covering slab of 100mm wide for being in cement concrete M25 using graded granite Jelly 20mm & down						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	size with Steel reinforcement including form work, lift Charges curing & concrete finished surface on both side etc complete						
	Qty is as per measurement sheet Item no 10						
	3825747.86 = present Qty						1559.62 m²
	previously paid Qty						3649.23 m²
	up to date Qty						5208.85 m²
	@ Rate 245 ₹/m²					1277309.05	= 1277299 =00
(11)	providing & Fixing pre cast- Covering Slab 250 mm thick made of- M 15 & Jelly 20 mm down size with Steel reinforcement including form work curing including cost of all materials						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535518

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Labour Charges of machinery loading & Unloading etc complete						
	Qty is as per measurement sheet Item no 11						
	209034.00 = present Qty						36.75 m²
	previously paid Qty						155.16 m²
	up to date Qty						191.91 m²
	@ Rate 568/m²						= 109158 =00
(12)	Excavation for road work in soil with hydralic excavation of 0.9 m³ bucket capacity including cutting & loading tippers trimming bottom & side slopes						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	in Accordance with requirement of lines grades & Cross Section & transporting to the embankment location to a lead of 11Km etc complete						
	Qty is from measurement Sheet-Item No 12						
	1808/08/00 = provisional Qty -						1801.80 m³
	provisionally paid Qty -						5877.13 m³
	Up to date Qty						7678.93 m³
(13)	Construction of granular Sub-base Grading-V as Sub base & drainage layer by providing Coarse	@ Rate 601/m³					= 460735=80
	Graded Crushed Stone aggregates of granite/ basalt material mixing in a mechanical mix plant						

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M. A. R. 57 (Rule 116) No. E 535519
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	at OMC Carriage of mixed materials to work site Spreading Lift from layers with motor prepared Surface & Compacting with Vibratory power roller to achieve desired density etc complete.						
	Qty is as per measurement Sheet-Item No 13						
	Up to 125%. 1421030·28 = provisional Qty —						675.62 m³
	provisionally paid Qty —						2714.46 m³
	@ Rate 2094/m³ up to date						3393.08
							= 7105099=00
							7105/09·52

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	above 125.1.				present qty	50.05 m³	
					previous qty	—	
					up to date	50.05 m³	
	@ rate 2094/m³					= 104796 = 10	
						104804.70	
(14)	providing laying spreading & compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site laying in uniform layer with paver Subbase/base course on wet prepared						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535520

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Surface & compacting with vibratory roller to achieve the desired density etc complete.						
	qty is as per measurement sheet item No 14						
	up to 125.1. 2138649.92 = present qty						1017.92 m³
	previously provided qty						4071.69 m³
	up to date						5089.61 m³
	@ rate 2101/m³					=	1069327
	above 125.1. present qty					—	75.41 m³
	previous qty					—	
	@ rate 2101/m³ up to date qty					=	158439
							158438.

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(15)	providing & applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface & spraying primer at the rate of 0.60 kg/m² using mechanical means etc complete qty is as per measurement sheet Item no 15						
	611433.60 =					Present qty 20381.10 m²	
						Previously paid qty - 2571.66 m²	
						Up to date qty 22952.76 m²	
	@ Rate 30/m²					= 688582 = 80	
(16)	cleaning the existing black topped surface with ~~brooms~~ soft brushes & finally dusting with old gunny bags & / or compressed air to receive						

M. A. R. 57 (Rule 116) No. E 535521
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	bituminous treatment including cost of all materials labour TOM of mixing etc complete qty is as per measurement sheet Item no 16						
						present qty - 3715.27 m²	
						previous qty	
						up to date qty - 3715.27 m²	
	@ Rate 6/m²					= 22291 = 80	
(17)	providing & applying tack coat using 80/100 Grade bitumen (@ 9/10) on the prepared black topped surface at 2.5 kgs per 10 m² heating bitumen in boiler etc						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	with spray Equipment including cost of all materials labour tools & machineries etc complete qty is as per measurement sheet item no 17						
	313252.68 =						Present qty - 24096.36 m²
							previously paid qty - 2571.66 m²
							up to date qty 26668.02 m²
	@ Rate 13/m²						= 346684 = 26
18	providing & laying Dense Graded Bituminous Macadam using Crushed aggregates of specified grading premixed with VG 30 grade bituminous binder & transporting the hot mix to work site						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535522

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	laying to the required grade level & alignment rolling with smooth wheeled vibratory & tandem rollers to achieve the desired compaction in all respects etc complete qty is as per measurement sheet item no 18						
	765745.48 =						present qty - 10189.82 m²
							previously paid qty - 128.58 m²
							up to date qty - 1147.56 m²
	@ Rate 6926/m²						= 7948021 = 7949300.56

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(19)	providing & laying bituminous Concrete 40mm thick with hot mix plant using Crushed with bituminous binder & filler transporting the hot mix to work site laying with paver finisher to the required grade level & alignment rolling with smooth wheeled vibratory & tandem rollers to achieve the desired Compaction in all respects etc complete						
	Qty is as per measurement					Item no 19	
					present Qty	967.79	
					previously paid Qty	102.87	
						1070.66 m²	

② Rate ₹140/m² ₹ 15172.40 = 871514 =

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535523

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(20)	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass beads on Bituminous Surface providing & laying of hot applied Thermoplastic Compound 2.5 mm thick including reflectorising glass beads at 250 gms per m² area thickness 2.5 mm is exclusive of Surface applied glass beads the finished Surface to be level uniform & free from streaks etc complete						
	Qty is as per measurement					Item no 20	
					present Qty	814.40 m²	

② Rate 477/m² = 388468 =

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(21)	Constructing Un-reinforced P.C.C for pavement-Using Grade Concrete M30 over a prepared base with coarse & fine aggregates mixed in a concrete mixture laid in approved lines side form work & spreading the concrete with shovels rammed compacted using needle etc complete qty is as per measurement sheet Item no 21 present qty - 247.70 m^2 @ Rate 5470/m^2 = 1354945=00 / 1354919.00						
(E)	Providing granite slabs of Selected Quality roughly dressed & fixes in C.M (1:6) including fixing framing etc complete						

M. A. R. 57 (Rule 116) No. E 535524
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	qty is as per measurement sheet Item no (E1) present qty - 50.67 m^2 @ Rate 2677.97/m^2 = 135693=74						
(E2)	providing & Fixing Rce pre cast covering slabs of 15cm, including cost of reinforcement cbs as per design and drawing materials cost, transportation Line Charges & machinery, machine Cutting the Vk have to get plain even surface etc complete with all lead & lift Conveyance charges. qty is as per measurement sheet Item no (E2)						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			prod. qty	—			35.01 cu.m
	@ Rate 2616.66 /cu.m					=	91608=92
			7402637.84				7401900=00
			Add 12% GST				888228=00
			8882464.61				8290128=00
			8290281645				
	Executive Engineer		(-) 4896800000				(-) 4896827=00
	Now to pay		339330562			=	3393300=00
	Round off		339300/-				
	(1) It is certified that the work done satisfactorily.						
	(2) The above Bill Amount has not been claimed						
	Copy of Bill.						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535525

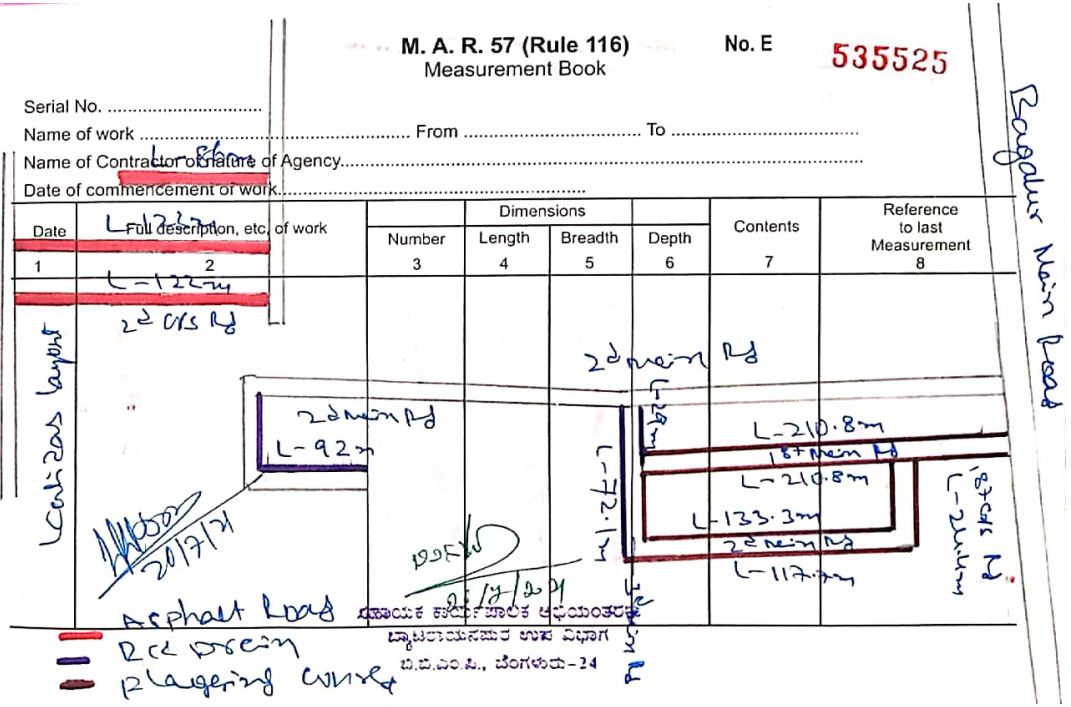
Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor or Nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	L-122m						
	2nd cross Rd						
	Asphalt Road						
	RCC drain						
	Plastering work						



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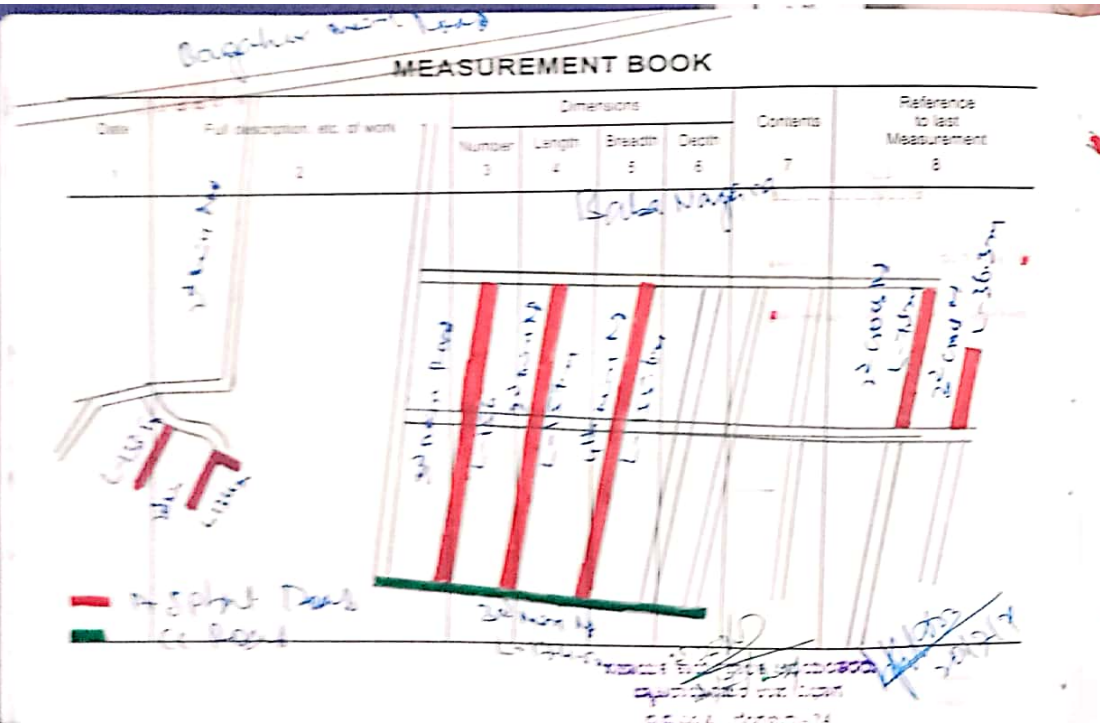
MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



M. A. R. 57 (Rule 116) No. E 535526

Measurement Book

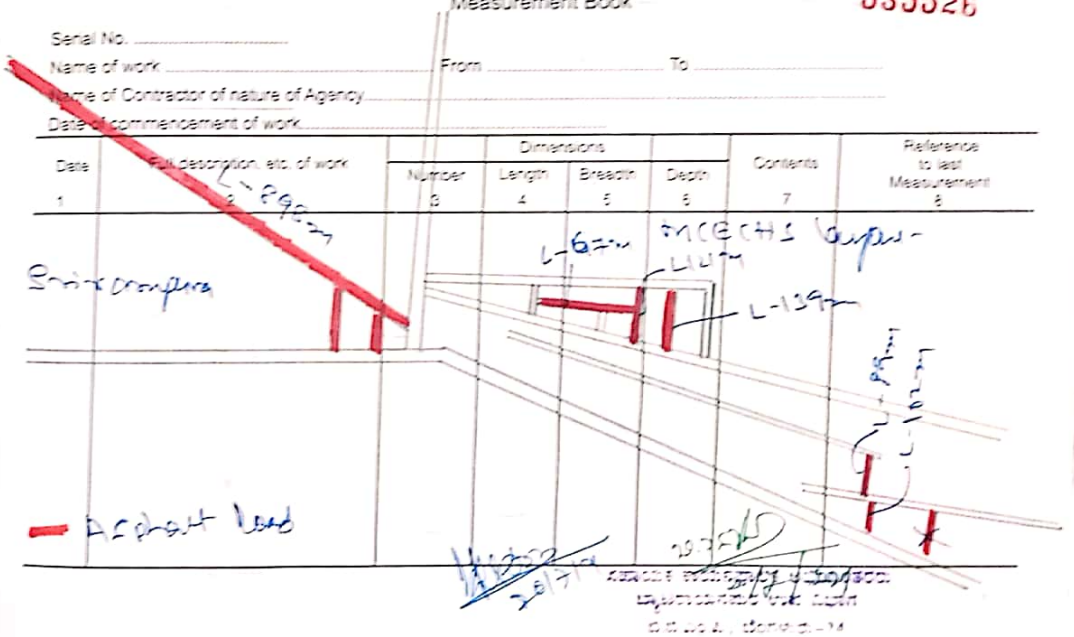
Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor or nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



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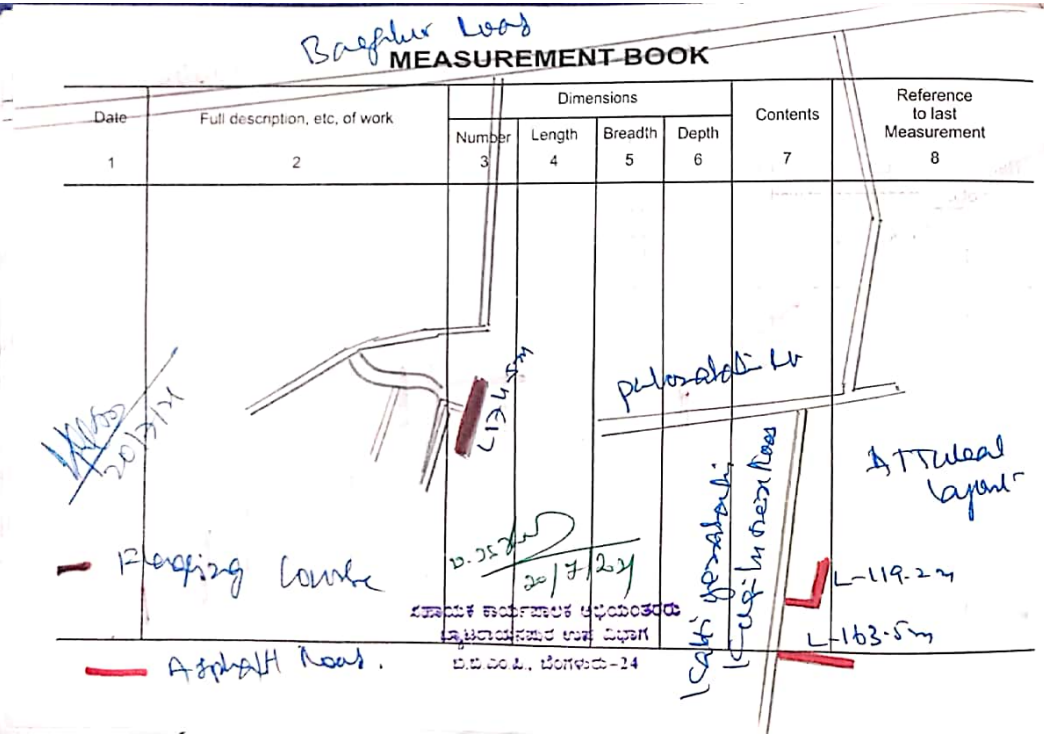
Baglur Road

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



20/7/24

ಮುಖ್ಯ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧಿಕಾರಿಗಳ ಕಛೇರಿ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

2nd & final

M. A. R. 57 (Rule 116) No. E 535527
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Depth	Contents	Reference to last Measurement
1	P3739 2	3	4	5	6	7	8
	ವಿಶೇಷ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಗಳ Special Development Works ರದಿ				Total :	82901000	
	ಜಲ್ಲು ಮೊತ್ತಕ್ಕೆ ರೂ.33933000/- ಮೊತ್ತಕ್ಕೆ ಪಾಸು ಮಾಡಿದೆ			1st & Part	Previous	48968000	
	ಇದರಲ್ಲಿ ರೂ. 16,59,000/- ಗಳನ್ನು ಹೊರಾಣಕೆ		TTB	2nd & Final	Present	33933000	
	ಮಾಡಿರೆಂದು ರೂ 3,22,74,000/- ಗಳನ್ನು				I+	339330	
					CCS+	302974	
					SCST	302974	
					CEIL	339330	
					CBF	33933	
					CR	339934	
					Final	520	
					Ded:	16,59,000	
					Charges	3,22,74,000	

FT/RFT/RTGS ಮುಖಾಂತರ ನಿಲುವಾಗಿ

ವಿಷಯ ನಿರ್ವಾಹಕರು

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃಬೆಮಪಾ, ಬೆಂಗಳೂರು

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃಬೆಮಪಾ, ಬೆಂಗಳೂರು

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